



**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) Method for preventing signal coupling between two or more chip-based mounted piezoelectric resonator sensors (G';G'') used in an electrically conductive flow-through liquid in a sensor system wherein the sensors are connected in series or parallel and each sensor (G';G'') has a flowcell body (C';C'') provided with its own resonator (3';3'') connected to its own oscillator circuit (29';29'') and its own power supply (35';35''), characterized by the steps of comprising:

-providing each sensor (G';G'') with its own, individual conducting shield (44';44'') which substantially surrounds said oscillator circuit (29';29'') flowcell body, and by connecting said conducting shield (44';44'') being connected to one pole of the power supply (35';35''); and making an inner wall of a flow tube connecting each cavity out of a non-conducting material.

2. (Canceled)

3. (Currently Amended) Method in accordance with claim 1 or 2 characterised in that the step of providing each sensor (G';G'') with its own, individual conducting shield (44';44'') which substantially surrounds said sensor (G';G'') comprises the steps of making a wherein said flowcell body (C';C'') is made out of a non-conducting material and coating substantially all of the outer surfaces of said flowcell with a conducting material.

4. (Canceled)

5. (Currently Amended) Piezoelectric resonator sensor comprising:

-a body—(C';C'') comprising a resonator—(3';3'') connected to an oscillator circuit (29';29''); and

~~a power supply—(35';35'') characterised in that said oscillator circuit (29';29''), wherein said body is substantially surrounded by a conducting shield (44';44'') which shield (44';44'') is connectable to one pole of the power supply—(35';35''), and wherein an inner wall of a cavity, an inlet channel and an outlet channel are insulated by said shield.~~

6. (Canceled)

7. (Canceled)

8. (New) Sensor in accordance with claim 5, wherein said body is made of a non-conducting material.